

NW12 – Southeast Oregon

Season ending date estimates for Southeast Oregon utilized the Predictive Services 7-day Significant Fire Potential Product. Given that the product determines the probability of a significant fire occurring, based on historical dryness levels and historic fire occurrence, the analysis results assume end of season when the product observed "green" (<1% probability of a significant fire event) for three or more consecutive days, and where periods of

green were never separated by more than a single yellow and or brown day (5 to 9% probability of a significant event).

occurred June 28, 2006 and the latest large fire occurred September 3, 2006.

A TERM file was generated using FireFamily Plus v. 4.1. The season was set May 15 to October 15 for the years

Large fire definition per NWCC predictive services for PSA NW12 is 10,000 acres or more. The earliest large fire

1994-2012 using the same rationale as above produced these results:

25% of the seasons end on or before September 27

50% of the seasons end on or before October 3 75% of the seasons end on or before October 7

90% of the seasons end on or before October 11

99% of the seasons end on or before October 16

SIG - E5 1994 - 2012 Waiting Time to Term Event Station: SIG - ES Term Name: NW12 Season Start Day: 5\15 Data Years: 1994 - 2012 Alpha: 21.166439 Beta: 0.007018 R-Squared: 0.962469 1.0-0.9 0.8 Day 9/28 9/24 10/4 9/23 9/75 10/8 10/8 10/8 10/5 9/97 10/3 10/5 9/99 10/2 10/3 10/3 10/3 10/4 10/15 #Days
136
132
143
131
115
143
147
146
135
141
144
117
140
124
141
141
141
142
154 0.7 Probability 0.6 0.5 0.4 0.3 | Key Probabilities | Probability | Date | 0.25 | September 27 | 0.50 | October 03 | 0.75 | October 07 | 0.90 | October 11 | 0.99 | October 16 | 0.2 0.1 FF+4.1 Beta 05/30/2013-13:14 5/15 7/1 9/1 6/1 8/1 10/1 Day of Year Empirical FF+4.1 Beta 05/30/2013-13:14 -Estimated

PSA NW12 (E5)

This area represents the high desert regions of southeast Oregon. . PSA fuel moistures are determined by the average of the Key RAWS in the zone.

Key RAWS: Antelope, Owyhee Ridge, Grassy Mountain, Moon Hill, Wagontire

Each RAWS receives equal weighting for NFDRS Index calculations. Used to determine DL: ERC for fuel moisture G

"Large Fire Day" = A day with an occurrence of at least one 10,000+ acre fire

"ERC threshold values used for DL determination Based on June-September data (2000-2011)

		% of all fire	% of all large fire	Conditional Probability of a		
DL	ERC Threshold	season days	days	large fire		
Green (moist)	≤ 68	39%	0%	0%		
Yellow (dry)	69 - 83	32%	38%	5%		
Brown (very dry)	≥ 84	29%	62%	9%		
* Conditional Probability: Assumes at least 1 ignition						

Specifics for PSA NW12

Burn Environment – Between the years 2004-2011, there were no large independent of lightning. Wind and instability shows no significant relationship to large fire occurrence. High ERC values and wind are the best indicators of large fire growth.

Lightning episodes that produce large fires occur on average 2 times per year. There is a strong correlation between large fires and lightning amount in conjunction with High ERC values.